BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : **Renovation of Byatarayanapura Joint Commissioner Offcer 1st Floor Bank Portion Building in Ward No. 08, (Amruthahalli) Kodigehalli Sub Division**

EMB
Detail Measurements

Job Code : **009-24-000009**

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BRUHATH BANGALORE MAHANAGARAPALIKE

EMB Detail Measurements

1st and Part Bill

Name of work: Renovation of Byatarayanapura Joint Commissioner Offcer 1st Floor Bank Portion Building in Ward No. 08, (Amruthahalli) Kodigehalli Sub Division

Work Order No: BBMP/EE/BTP/WO/01/2024-25 dt: 05/07/2024

JOB NUMBER: 008-24-000009

Estimate Cost: 24.90.00 Lakhs.

Name of Contractor : Sri. Shankar Reddy

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Dismantling tile work in floors and roofs laid in cement mortar includ ing stacking material to the appropriate disposal area as per direction of Engineer-in-charge.. complete **For thickness of tiles above 25 mm and up to 40 mm (Vol -2, Pg No. 189 Item No 19.22.2 of PWD SR 2023-24)**								
	First Floor Old Bank Building Hall	sqm	1	10.20	10.45		106.59		
			1	7.90	1.66		13.11		
			1	7.07	8.10		57.27		
			1	3.20	5.24		16.77		
			1	7.20	5.00		36.00		
			1	3.12	4.60		14.35		
							244.09		
	Deduct toilet		1	3.34	2.15		7.18		
					Total Qty		**236.91**	99.00	**23454.09**
2	Providing **18 mm cement plaster in two coats u**nder layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. **(PWD SR 2023-24 Vol -II Pg 42 item no 8.9)**								
	First Floor Old Bank Building Hall		2	2.00	1.20		**4.80**		
			2	3.00	1.15		**6.90**		
					.		**11.70**		6020.40
				11.60	Limited to		**11.70**	519.00	**6072.3**
3	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge. **(PWD SR 2023-24 Vol -II Pg 50 item no 8.51)**								
	First Floor Old Bank Building Hall	sqm	1	10.45		3.5	36.58		
			1	10.2		3.5	35.70		
			1	7.9		3.5	27.65		
			1	8.86		3.5	31.01		
			1	18.34		3.5	64.19		
			1	17.27		3.5	60.45		
	room inside		1	15.44		3.5	54.04		
	outside		1	18.22		3.5	63.77		
							373.38		
	deduct windows		11	2.40	1.35		35.64		
			1	3.63	1.65		5.99		

15.07.2024

S/h. Sankar Reddy 30.8.2024

Assistant Executive Engineer
Kodigehalli Sub Division

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	doors		2	1.05		2.10	4.41		
			2	0.75		2.00	3.00		
			1	2.10		2.40	5.04	12.45	
	main door				Total Rs		**319.30**		
					limited to		**313.74**	135.00	**42354.90**
4	Painting with **synthetic enamel paint of approved brand** and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. **(PWD SR 2023-24 Vol - II Pg 48 item no 8.41)**								
a	for ceiling First Floor Hall	sqm	1	10.20	10.45		106.59		
			1	7.90	1.66		13.11		
			1	7.07	8.10		57.27		
			1	3.20	5.24		16.77		
			1	7.20	5.00		36.00		
			1	3.12	4.60		14.35		
b	**for wall**								
		sqm	1	10.45		3.5	36.58		
			1	10.2		3.5	35.70		
			1	7.9		3.5	27.65		
			1	8.86		3.5	31.01		
			1	18.34		3.5	64.19		
			1	17.27		3.5	60.45		
	room inside		1	15.44		3.5	54.04		
	outside		1	18.22		3.5	63.77		
							617.47		
	deduct windows		11	2.40		1.35	35.64		
			1	3.63		1.65	5.99		
	doors		2	1.05		2.10	4.41		
			2	0.75		2.00	3.00		
	main door		1	2.10		2.40	5.04		
							54.08		
							563.39	225.00	**126763.09**
5	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate sections and other sections of approved make conforming to IS: 733 and IS:1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For Fixed Portion: Powder coated aluminium (minimum thickness of powder coating 50 micron) including cost of materials, labour, usage charges of machinery complete as per specifications. **(Vol-2, Pg No. 86 Item No. 11.35.1.2 of PWD SR 2023-24)**								
		Kgs					**0.00**	**660.00**	**0.00**

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
6	**Fixing of door frame** in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. **(Vol-2, Pg No. 105 Item No. 12.51 of PWD SR 2023-24)**								
	Room Doors	No	1				1.00	1371.00	**1371.00**
7	Providing **Honne wood frames of doors,** windows, clerestory windows, ventilators and **other frames**, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. **(Vol-2, Pg No. 99, Item No. 12.11 of PWD SR 2023-24)**								
	Room Doors Frames		1	1.05	0.075	0.125	**0.010**		
			2	2.1	0.075	0.125	**0.039**		9135.66
							0.049	186442.00	**9176.44**
8	Providing and fixing flush **door shutter made out of solid core block board type,** well seasoned, chemicaly treated hard wood battens and internal frame with minimum 45 mm wide wooden frame alround door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door useing liquid phenol formaldehyde resin as per IS specifications 2202 (part-I) 1991. from manufacturer complete as per spcification. - 40mm thick both side teak **(Vol-2, Pg No. 106 Item No 12.57.7 of PWD SR 2023-24)**								14800.37
	Room door		1	1.05		2.1	**2.21**	6697.00	**14766.89**
9	Providing and laying **Vitrified tiles** with thickness 9-10 mm in different sizes with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joint with white cement & matching pigments etc. complete. **Size of Tile 600x600 mm (Vol-2, Pg No. 61 Item No 9.17.2 of PWD SR 2023-24)**								
	First Floor Hall	sqm	1	10.20	10.45		106.59		
			1	7.90	1.66		13.11		
			1	7.07	8.10		57.27		
			1	3.20	5.24		16.77		
			1	7.20	5.00		36.00		
			1	3.12	4.60		14.35		
					total		244.09		
	deduct		1	3.34	2.15		7.18		
					Total Qty		**236.91**	1586.00	**375739.26**
10	Providing and fixing 10 mm thick acid and/or **alkali resistant tiles of approved make** and colour using acid and/or alkali resisting mortar bedding for Bathrooms: Toilet: Chemically exposed areas and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) with Acid and alkali resistant tile **(PWD SR 2023-24 Vol -II Pg 59 item no 9.7.1)**								
	First Floor Hall	sqm	1	1.00	1.99		1.99		
			1	2.00	0.72		1.44		

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

12. Sankar Reddy 30.8.2024

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
			1	0.80	1.24		0.99		
			1	1.01	1.00		1.01	2	
							5.43		
							3.48	1682.00	5853.36
11	Providing skirting, **dadooing, rises of steps with** colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. **(PWD SR 2023-24 Vol -II Pg 65 item no 9.39)**								
	First Floor Hall	sqm	1	1.00		2.10	2.10		
			2	1.99		2.10	8.36		20355.16
							10.46	1946.00	20351.27
12	**Providing and fixing to existing door frames** Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames. **(PWD SR 2023-24 Vol -2 ,Pg-112 item No. 12.97.1)**								
	First Floor Toilet doors	sqm	2	0.70	2.05		2.87		
	Record room Door		1	1.00	2.05		2.05		
							4.92		
						ltd	**4.73**	4326.00	20461.98
13	**Providing & fixing of 3-track x 2-panel sliding windows** made out of multi chambered **UPVC(Matching to RAL-9016)** sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made). **(PWD SR 2023-24 Vol -II Pg 110 item no 12.90)**								
	First floor Windows	sqm	11	2.40	1.35		35.64		
	W1		1	3.63	1.65		5.99		378499.96
						Total Qty	**41.63**	9092.00	378495.41

K. Sanjeeva Reddy

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
14	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)). **(PWD SR 2023-24 Vol -II Pg 109 item no 12.85)**								
	Toilets Ventilator	sqm	2	0.60	0.45		**0.54**	7722.00	**4169.88**
15	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @ 0.80 L/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.**(PWD SR 2023-24 Vol -II Pg 47 item no 8.33.3)**								
	First Floor Windows Grills	sqm	11	2.40		1.35	**35.64**		
			1	3.63		1.65	**5.99**		.81
							41.63	187.00	**7784.72**
16	Providing and fixing **white vitreous china pedestal type water closet (European type)** with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required W.C. pan with ISI marked white solid plastic seat and lid **(PWD SR 2023-24 Vol II. PgNo.123.Item No14.3.1)**								
	For Toilets	Each	2				**2**	8070.00	**16140.00**
17	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps**(PWD SR 2023-24 Vol-II. PgNo 132, Item No 14.7.1)**								
	for Toilets	Each	2				2	4161.00	**8322.00**
18	Providing and fixing brass bib cock of approved quality :: 20 mm nominal bore **(PWD SR 2023-24 Vol-II, PgNo 117, Item No. 13.2.2)**								
	For Toilets	Each	4				**4**	411.00	**1644.00**
19	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore **(PWD SR 2023-24 Vol-II, PgNo 117, Item No 13.5.2)**								
		Each	4				4	423.00	**1692.00**

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
20	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. **(PWD SR 2023-24 Vol II. PgNo 136 Item No 14.31)**								
		Each	1				1	1647.00	**1647.00**
21	Providing and fixing **Chlorinated Polyvinyl Chloride (CPVC) pipes,** having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.Internal work - Exposed on wall 20 mm nominal dia Pipes **(PWD SR 2023-2024-Vol-2, Pg 122, Item No.13.31.2)**								
		Mtr	1	35.00			**35.00**	326.00	**11410.00**
	Elecrical Items								
22	**Supplying and wiring adopting loop system** in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Short point upto 3Mtr from tapping point to out let via switch **(PWD SR 2023-2024-Vol-4, Pg 04, Item No.2.1.1)**								
	First Floor Old Bank Building hall	Each	4				4	346.00	**1384.00**
23	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box **(PWD SR 2023-2024-Vol-4, Pg 04, Item No.2.1.2)**								
		Each	10				10	478.00	**4780.00**
24	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS- 694:2010. 1.5 sqmm..**(PWD SR 2023-2024-Vol-6, Pg 04, Item No.2.3.2)**								
		Mtr	1	200.00			200.00	31.00	**6200.00**
25	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS- 694:2010.2.5 sqmm..**(PWD SR 2023-2024-Vol-6, Pg 04, Item No.2.3.3)**								
		Mtr	1	100.00			100.00	51.00	**5100.00**
26	**Wiring for lighting/power circuit** using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS- 694:2010 4 mm2 **(PWD SR 2023-2024-Vol-6, Pg 04, Item No.2.3.4)**								
		Mtr	1	20.00			20.00	76.00	**1520.00**

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
27	Supplying and flush mounting **powder coated / galvanized metal box** suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1- Way.**(PWD SR 2023-2024-Vol-6, Pg 07, Item No.3.4.1)**								
		Each	10				10	167.00	**1670.00**
28	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall. 8 Way **(PWD SR 2023-2024-Vol-6, Pg 07, Item No.3.4.5)**								
		No	5				5	317.00	**1585.00**
29	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.1 to 2 Module**(PWD SR 2023-2024-Vol-6, Pg 07, Item No.3.5.1)**								
		No	10				**10**	166.00	**1660.00**
30	Supplying and fixing superior quality modular switch mounting olycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.8 Module **(PWD SR 2023-2024-Vol-6, Pg 07, Item No.3.5.5)**								
		Each	10				**10**	345.00	**3450.00**
31	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A One Way Switch**(PWD SR 2023-2024-Vol-6, Pg 08, Item No.6.6.1)**								
		Each	32				**32**	123.00	**3936.00**
32	Supplying capacitor type ceiling fan complete with down rod blades,shackle, canopies etc, for operation on 230 V, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system.48" Sweep (1200 mm) Regular model**(PWD SR 2023-2024-Vol-6, Pg 29, Item No.6.3.1)**								
		Each	8				8	3626.00	**29008.00**
33	Stepped Fan Regulator Two Module.**(PWD SR 2023-2024 Vol-6, Pg 08, Item No.6.4.4)**								
		Each	10				10	433.00	**4330.00**
34	16A One Way Switch. **(PWD SR 2023-2024 Vol-6, Pg 08, Item No.3.6.7)**								
		Each	3				3	218.00	**654.00**
35	Supplying of .....feet -PVC Batten with integrated **LED tube** .... W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220- 240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. **LED light fitting 1 x 4' - 20/22 W(PWD SR 2023-2024 Vol-6, Pg 42, Item No.11.3.2)**								
		Each	10				10	838.00	**8380.00**

30.8.2024

Assistant Executive Engineer
Kadugodi Sub Division
BBMP, Bangalore

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
36	Supply of round/square recess/surface mounted rolling type **LED Down light with .....** W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 10-12W **(PWD SR 2023-2024 Vol-6, Pg 43, Item No.11.5.2)**								
		Each	6				6	1075.00	**6450.00**
37	Supplying & fixing **miniature circuit breakers** on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 A SP **(PWD SR 2023-2024 Vol-6, Pg 16, Item No.5.18.1)**								
		Each	1				1	504.00	**504.00**
38	Supplying and fixing regular **MCB distribution boards** on wall/ood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting Made out of 14 SWG MS enclosure. 12 Way SP & N**(PWD SR 2023-2024 Vol-6, Pg 17, Item No.5.19.4)**								
		Each	1				1	2264	**2264.00**
								Grand Total	**1160545.00**

30.8.2024

Assistant Engineer
Ward No. 08

K. Srinivas Reddy

Assistant Executive Engineer
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